CHARCOAL FILTER R&R NODE 1

OBJECTIVE
Remove and replace expended Charcoal Filters

LOCATION
Installed: Midbay Nadir NOD1D3-1,3
Stowed: √Maint Dbase

DURATION
28 minutes

PARTS
Four Charcoal Filters, Part #SV810010

MATERIALS
Failed equipment bag

TOOLS REQUIRED
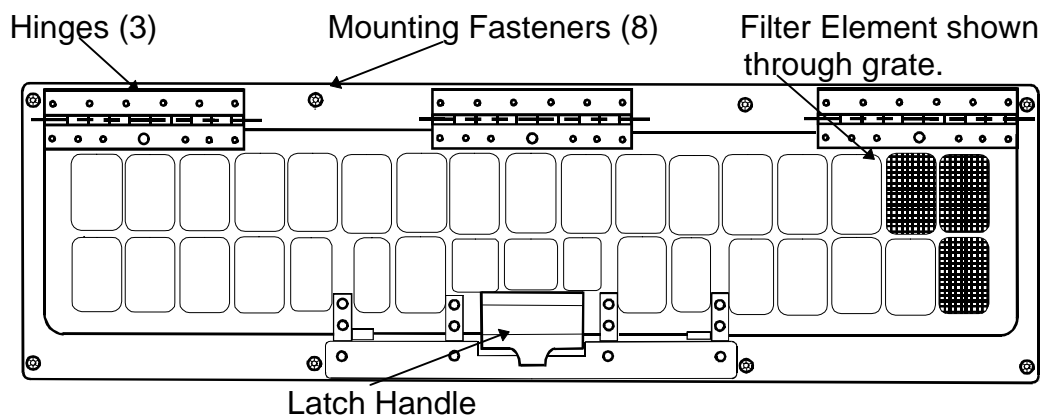1/4" Power Driver
Kit H:
     5/32" Hex Head Driver, 1/4" Drive

Hinges (3)   Mounting Fasteners (8)   Filter Element shown
through grate.

Latch Handle

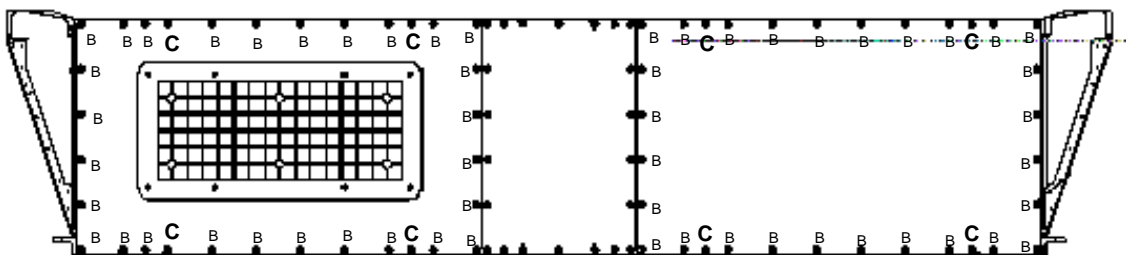Figure 1.- Front view of filter assembly door.

Figure 2.- Front view of midbay nadir panels with fasteners marked (C).

WARNING

Health hazard exists for failure to close Rheostat Air Mixture Valve (RAMV) and deactivate Cabin Fan. Failure to comply can result in circulating contaminated air.

CAUTION

The Area Smoke Detectors (ASD) are mounted on the backside of Closeout Panels NOD1D3-1,3. Power to the ASD must be deactivated by ECLSS prior to maintenance. An adequate length of ASD power cable has been provided to open Closeout Panels and allow access to the maintenance areas. Failure to comply may damage ASD, power cable, and/or Closeout Panels.

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1. Position RAMV to "FULL HOT" position.

2. Perform NODE 1 CABIN FAN DEACTIVATION, all (ECLSS).

NOTE

Fasteners on the Closeout Panels can be used for tethering the panels to nearby structure during maintenance.

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3. Loosen fasteners (four) from each panel (two) (1/4" Power Driver; 5/32" Hex Head, 1/4" Drive) (NOD1D3-1,3).

4. Remove, temporary stow Closeout Panels from secondary structure.

REMOVE
5. Remove, temporary stow new filter from containment bag.

6. Open filter assembly door, position loose particles containment bag over expended charcoal filter, collapsing it to pull strap in center of filter, pull charcoal filter in to bag, and close. Temporary stow.

REPLACE
7. Install new filter and close assembly door.

8. Repeat steps 5, 6, and 7 for remaining filters (three).

CLOSE-OUT
9. Replace panels (two).
    Secure fasteners (four) on each panel.

10. Position Control Damper Assembly away from "FULL HOT" position.

11. Perform NODE 1 CABIN FAN ACTIVATION, all (ECLSS).

<u>CHECK-OUT</u>

12. Stow expended filters and tools.

13. Update Maint Dbase.